



DEPARTMENT OF THE NAVY

JOINT BASE ANACOSTIA-BOLLING
20 MACDILL BLVD, SUITE 300
WASHINGTON, D.C. 20032-7711

5090
Ser J4/006
February 3, 2016

Karen Crumlish, Branch Chief
Drinking Water Branch (3WP21)
Water Protection Division
U.S. EPA Region 3
1650 Arch Street
Philadelphia, PA 19103

Ms. Crumlish:

Enclosed is the Total Coliform Rule (TCR) Report for the January 2016 monitoring period for Joint Base Anacostia-Bolling (JBAB) Anacostia side. Included with the results are the certificates of analysis and the Chain of Custody Forms.

JBAB-Anacostia side continued to monitor at Building 47 during the second routine sample event in January. The sample was collected in the second floor woman's locker room at the far left sink. This location replaced Building 391 permanently as the one of the four approved routine sampling location. Building 391 will become an approved alternative sampling location.

Please mail all correspondence to:

ATTN: Director, Installation Environmental Program
Department of the Navy
PWD- Joint Base Anacostia-Bolling
370 Brookley Avenue SW
JBAB, Washington, DC 20032-0101

If you have any questions or require further information, please contact Ms. Brooke Shaffer, of my staff, at (202) 404-1273 or via email at brooke.shaffer@navy.mil.

Sincerely,

A handwritten signature in blue ink, reading "Madina M. Alharazim-Plummer", is written over a horizontal line.

MADINA M. ALHARAZIM-PLUMMER

By direction

Enclosures: 1. Total Coliform Rule (TCR) Summary Report, January 2016
2. Disinfectant Residual Reporting, January 2016
3. TCR Sample Analysis Results and Chain of Custodies, January 2016

Total Coliform Rule (TCR) Summary Report January 2016**Location:** Joint Base Anacostia-Bolling (JBAB) Anacostia Side**PWS ID:** 0000004

Number of Routine Samples Required: 4

Number of Routine Samples Taken: 4

Number of Routine Samples Coliform+: 0

Number of Routine Samples Fecal Coliform+: 0

Percentage of Samples Disinfectant Not Detected**: 0%

Number of Repeat Samples Required: 0

Number of Repeat Samples Taken: 0

Number of Repeat Samples Coliform+: 0

Number of Repeat Samples Fecal Coliform+: 0

Building Number	Proposed Sampling Days	Sample Number	Sampling Location	Justification	Total Coliforms (pos/neg)	pH	Residual Chlorine (mg/L)***	Temp (C)	HPC (mpn/mL)	Chlorine & HPC* "V" (Y/N)
ROUTINE SAMPLES										
ANA-370	First Half of Month (01/05/16)	1A	Women's Bathroom Sink	High Population	Neg.	7.75	0.39	13.6	N/A	N
ANA-413	First Half of Month (01/05/16)	2A	Women's Bathroom Sink	High Population	Neg.	7.49	3.60	11.5	N/A	N
ANA-418	Second Half of Month (01/19/16)	3A	Back Food Processing Sink in Kitchen	High Population	Neg.	8.39	3.00	9.2	N/A	N
ANA-47	Second Half of Month (01/19/16)	4A	Women's Locker Room far left sink	High Population	Neg.	8.04	1.90	11.9	N/A	N

*Record Yes when (1) Chlorine < 0.10 mg/L and HPC is either not measured or HPC >500 cfu/mL or (2) Chlorine is not measured and HPC >500 cfu/mL.

** Equal to the number of Yes in column titled "Chlorine & HPC*" divided by the sum of the Number of Routine and Repeat Samples Taken and the number of instances when HPC is monitored but residual chlorine is not monitored.

Disinfectant Residual Reporting

Systems must report the following (40 CFR 141.134(c)):

- (i) The number of samples taken during each month of the last quarter.
- (ii) The monthly arithmetic average of all samples taken in each month for the last 12 months.
- (iii) The arithmetic average of the monthly averages for the last 12 months.
- (iv) Whether, based on Sec. 141.133(c)(1), the MRDL was violated.

Step 1:

- a. Enter data from the current month of monitoring, including begin and end dates for sample collection.
- b. The disinfectant residual data entered is that monitored at the same time and place as coliform samples are collected. The number of samples collected should equal the number of coliform samples collected during the month (including repeat coliform samples).
- c. If you did not monitor for free chlorine during the month, leave those cells blank.

Monthly sample collection begin date:	1/5/2016
Monthly sample collection end date:	1/19/2016

Parameter	# of Samples	Monthly Average	Min	Max
Free Cl ₂				
Total CL ₂ - Chloramine disinfection	4	2.33	0.39	3.60
Total CL ₂ - Chlorine disinfection				

Step 2:

- a. Drop the oldest month of data and add the most recent month.
- b. Enter the current month's data (average, minimum, maximum) into the RAA calculation, below.
- c. If you did not monitor for free chlorine during the month, leave those cells blank.
- d. This spreadsheet will automatically calculate the running annual average based on the monthly averages.
- e. At the end of the quarter (March, June, September, December), the running annual average of monthly averages (RAA) is used to determine compliance with the MRDL.
- f. The RAA averages at the end of the quarter are necessary for CWSs to prepare CCRs.

		Total Chlorine			Free Chlorine		
		Monthly average	Min	Max	Monthly average	Min	Max
February	2015	3.12	1.58	4.30			
March	2015	3.13	2.90	3.40			
April	2015	1.60	0.49	2.12	1.41	0.39	1.86
May	2015	2.08	1.53	3.20			
June	2015	2.73	2.30	3.00			
July	2015	2.05	0.81	2.70			
August	2015	1.17	0.66	1.91			
September	2015	1.28	0.10	2.70			
October	2015	1.07	0.02	2.80			
November	2015	1.47	0.11	2.70			
December	2015	2.07	0.27	3.50			
January	2016	2.33	0.39	3.60			
Running Avg		2.0			1.4		

RAA Summary

		Total Chlorine	Free Chlorine
MARCH	2015	1.9	1.2
JUNE	2015	2.0	1.2
SEPTEMBER	2015	1.9	1.4
DECEMBER	2015	2.0	1.4

- g. The highest value of RAA for Total Chlorine is necessary for CWSs to prepare CCRs.



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Ventrie Court • P.O. BOX 245 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2386
www.fredericktownelabs.com • info@fredericktownelabs.com

Analysis Results

Account No.: 9466 - 12-3

JBAB

Date Received: Tuesday, January 05, 2016

Collected By: Gayan Kularathne
Inspection Experts, Inc.

Date Reported: Thursday, January 07, 2016

Matrix: Drinking Water

Lab#	Parameter	Result	Limit of Detection	Method	Start Date	Start Time	End Date	End Time	Analyst
Source: - 2A-ANA-413 Type: Grab Collection Date: 1/5/2016 - 08:13									
9466-12-3-1	Total Coliforms	Abs. /100ml	1 /100ml	9223B	01/05/16-15:14		01/06/16-15:33		JD
9466-12-3-2	Chlorine - Total (Field)	3.5 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-12-3-3	pH (Field)	7.49		4500-H+B	On Site				GK
9466-12-3-4	Temperature (Field)	11.5 deg. C	-20 deg. C	2550	On Site				GK
Source: - 1A-ANA-370 Type: Grab Collection Date: 1/5/2016 - 09:56									
9466-12-3-5	Total Coliforms	Abs. /100ml	1 /100ml	9223B	01/05/16-15:14		01/06/16-15:33		JD
9466-12-3-6	Chlorine - Total (Field)	0.39 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-12-3-7	pH (Field)	7.75		4500-H+B	On Site				GK
9466-12-3-8	Temperature (Field)	13.6 deg. C	-20 deg. C	2550	On Site				GK
Source: - ANA-409 Type: Grab Collection Date: 1/5/2016 - 09:31									
9466-12-3-9	Bact.- Stand. Plate Count	86 /ml	0.2 /ml	Simplate®	01/05/16-15:13		01/07/16-15:38		JD
9466-12-3-10	Chlorine - Total (Field)	0.05 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-12-3-11	pH (Field)	8.45		4500-H+B	On Site				GK
9466-12-3-12	Temperature (Field)	11.5 deg. C	-20 deg. C	2550	On Site				GK

Notes:

1. mg/l stands for milligrams per liter and is nearly synonymous with parts per million
ug/l stands for micrograms per liter and is nearly synonymous with parts per billion
2. < stands for "less than" and indicates that the component in question was not detected (i.e. was less than the detection limit)
3. All analyses performed using EPA accepted methods in accordance with Title 40 Code of Federal Regulations Part 141 & 143. Method references: (1) Methods for the Chemical Analysis of Water & Wastewater EPA-600/4-79-020, (2) Standard Methods for the Examination of Water Wastewater - AWWA 19th/20th eds.
4. "*" denotes an analysis that was subcontracted to a State of Maryland approved lab.
5. Information concerning field pH and chlorine for bacteriological samples may be found on the chain of custody form.

Verified by:

[Signature]
M. L. Miller, Ph.D.
Laboratory Director

Fredericktowne Labs is a State Certified Water Quality Laboratory
MD Cert. No.: 116 VA Cert. No.: 444
MDOT WBE Cert. No.: 91-158

FREDERICKTOWNE LABS, INC.
3020 VENTRIE CT., PO BOX 245, MYERSVILLE, MD 21773
301-293-3340 OR FAX 301-293-2366

FTL Acct. No.: 9466- 12-3			Collected By: GAYAN KULARATHNE							Analyses To Be Performed						
Compliance Sample (regulated): Yes <input type="checkbox"/> No <input type="checkbox"/>			Affiliation: Inspection Experts, Inc.							T.C. P/A (SM9223B)	HTAC					Preservation
Project: JBAB																
Field Sample ID	Site Description	Collection Date	Collection Time	Matrix DW/WW	pH	Total Cl	Temp		Grab/Comp							
	2A- ANA - 413	01/05/16	0813	DW	7.49	3.5	11.5		G	1					Na2S2O3 & Ice	
	1A- ANA - 370	01/05/16	0956	DW	7.75	0.39	13.6		G	1						
	ANA-409	01/05/16	0931	DW	8.45	0.05	11.5		G		1					
Relinquished By:		Date/Time	Received By:		Date/Time		Treatment Devices Present:		Yes <input type="checkbox"/> No <input type="checkbox"/>							
(Print): Gayan Kularathne		01/05/16	(Print): LEONARD GREENE		01/05/16		Describe Treatment Device(s):									
(Signature):		1350	(Signature): Leonard Greene		13:50											
Relinquished By:		Date/Time	Received By:		Date/Time		Lead & Copper Samples - Water Last Used:									
(Print): LEONARD GREENE		1/5/16	(Print): KATHY HOFNER		1/5/16		Date:		Time:							
(Signature): Leonard Greene		14:48	(Signature): Kathy Hofner		1448		Method of Shipment:		Iced: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Relinquished By:		Date/Time	Received By:		Date/Time		Condition of Sample(s) upon Receipt:									
(Print):			(Print):													
(Signature):			(Signature):						3.4							



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Analysis Results

Account No.: 9466 - 12-15

JBAB

Date Received: Tuesday, January 19, 2016

Collected By: Gayan Kularathne
Inspection Experts, Inc.

Date Reported: Wednesday, January 20, 2016

Matrix: Drinking Water

Matrix: Drinking Water				Limit of Detection	Method	Start		End		Analyst
Lab#	Parameter	Result	Date			Time	Date	Time		
Source: - 3A-ANA-418 Type: Grab Collection Date: 1/19/2016 - 08:15										
9466-12-15-1	Total Coliforms	Abs. /100ml	1 /100ml	9223B	01/19/16-15:14	01/20/16-15:24	JD			
9466-12-15-2	Chlorine - Total (Field)	3.0 ppm	0.1 ppm	SM4500-Cl G	On Site		GK			
9466-12-15-3	pH (Field)	8.39		4500-H+B	On Site		GK			
9466-12-15-4	Temperature (Field)	9.2 deg. C	-20 deg. C	2550	On Site		GK			
Source: - 4A-ANA-47 Type: Grab Collection Date: 1/19/2016 - 08:44										
9466-12-15-5	Total Coliforms	Abs. /100ml	1 /100ml	9223B	01/19/16-15:14	01/20/16-15:24	JD			
9466-12-15-6	Chlorine - Total (Field)	1.90 ppm	0.1 ppm	SM4500-Cl G	On Site		GK			
9466-12-15-7	pH (Field)	8.04		4500-H+B	On Site		GK			
9466-12-15-8	Temperature (Field)	11.9 deg. C	-20 deg. C	2550	On Site		GK			

Notes:

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2. < stands for "less than" and indicates that the component in question was not detected (i.e. was less than the detection limit)
3. All analyses performed using EPA accepted methods in accordance with Title 40 Code of Federal Regulations Part 141 & 143. Method references: (1) Methods for the Chemical Analysis of Water & Wastewater EPA-600/4-79-020, (2) Standard Methods for the Examination of Water Wastewater - AWWA 19th /20th eds.
4. "*" denotes an analysis that was subcontracted to a State of Maryland approved lab.
5. Information concerning field pH and chlorine for bacteriological samples may be found on the chain of custody form.

Verified by:

[Signature]
M. L. Miller, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY

FREDERICKTOWNE LABS, INC.

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301-293-3340 OR FAX 301-293-2366

Page: _01_ of _01_

FTL Acct. No.: 9466- <i>12-15</i>			Collected By: GAYAN KULARATHNE							Analyses To Be Performed											
Compliance Sample (regulated): Yes <input type="checkbox"/> No <input type="checkbox"/>			Affiliation: Inspection Experts, Inc.							T.C. P/A (SM9223B)					Preservation						
Project: JBAB																					
Field Sample ID	Site Description	Collection Date	Collection Time	Matrix DW/ WW	pH	Total Cl	Temp		Grab/ Comp												
	3A- ANA - 418	01/19/2016	0815	DW	8.39	30	9.2		G							1					Na2S2O3 & Ice
	4A- ANA - 47	01/19/2016	0844	DW	8.04	1.90	11.9		G							1					
Relinquished By:		Date/Time	Received By:		Date/Time		Treatment Devices Present: Yes <input type="checkbox"/> No <input type="checkbox"/>														
(Print): <i>Gayan Kularathne</i>		<i>01/19/16</i>	(Print): <i>LEONARD GREENE</i>		<i>01/19 13:35</i>		Describe Treatment Device(s):														
(Signature): <i>[Signature]</i>		<i>13:35</i>	(Signature): <i>Leonard Greene</i>																		
Relinquished By:		Date/Time	Received By:		Date/Time		Lead & Copper Samples - Water Last Used:														
(Print): <i>LEONARD GREENE</i>		<i>01/19 14:29</i>	(Print): <i>Karen Witkowski</i>		<i>1/19/16</i>		Date: Time:														
(Signature): <i>Leonard Greene</i>			(Signature): <i>[Signature]</i>		<i>(1429)</i>		Method of Shipment: <i>cooler</i> Iced: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
Relinquished By:		Date/Time	Received By:		Date/Time		Condition of Sample(s) upon Receipt: <i>2.2°C</i>														
(Print):			(Print):																		
(Signature):			(Signature):																		